Contents

Volume 23, No. 1, January 1986

Editorial 1

The Use of Interleukin 1$^+$ and Interleukin 1$^-$ Cell Lines to Dissociate Signals Involved in the Induction of Cytolytic T Cells. *L. A. Smith, D. A. Cohen & A. M. Kaplan* 3

The Chemokinetic Inhibitory Factor Derived from Chronic Lymphocytic Leukaemia Cells. Partial Purification and Characterization of a New Lymphokine. *A. Siegbahn, K. Nilsson & P. Venge* 15

Concanavalin A Induction of Suppressor Activity in the T-Helper Subset Defined by Monoclonal Antibodies. *B. Davidsen & E. Kristensen* 25

Naturally Occurring, Spleen-Associated Suppressor Activity of the Newborn Mouse. Biochemical and Functional Identification of Three Monokines Secreted by Newborn Suppressor–Inducer Monocytes. *M. R. Jadus & A. B. Peck* 35

Trans-Stimulation of T Cells: Characterization of Targets and Involvement in Loss of Alloreactivity. *C. Petit & M. H. Julius* 45

An OKT4$^+$ T-Cell Population in Sézary Syndrome: Attempts to Elucidate Its Lack of Proliferative Capacity and Its Suppressive Effect. *M. M. Golstein, C. Farnarier-Seidel, P. Daubney & S. Kaplanski* 53

Interaction of Complement-Solubilized Immune Complexes with CR1 Receptors on Human Erythrocytes. The Binding Reaction. *H. H. Jepsen, S.-E. Svehag, L. Jarlbæk & G. Baatrup* 65

The Fate of Neonatally Injected Effector Cells of Allergic Encephalomyelitis. *D. O. Willenborg, P Sjollema & G. Danta* 75

Graft-versus-Host Disease in the Rat: Cellular Changes and Major Histocompatibility Complex Antigen Expression in the Liver. *R. J. M. Stet, C. Thomas, J. Koudstaal, M. J. Hardonk, C. E. Hulstaert & P. Nieuwenhuis* 81

Monocyte-Regulated Hyporesponsiveness of Human Cord Blood Lymphocytes to OKT3-monoclonal-antibody-induced Mitogenesis. *N. Papadogiannakis, S.-A. Johnsen & L. B. Olding* 91

HLA Class-II-restricted *Mycobacterium leprae*-reactive T-Cell Clones from Leprosy Patients Established with a Minimal Requirement for Autologous Mononuclear Cells. *J. B. A. G. Haanen, T. H. M. Ottenhoff, A. Voordouw, D. G. Elferink, P. R. Klatser, H. Spits & R. R. P. de Vries* 101

The Human Cell Surface Glycoprotein Complex (gp 120,200) Recognized by Monoclonal Antibody K20 is a Component Binding to Phytohaemagglutinin on T Cells. *M. Amiot, A. Bernard, H. C. Tran, G. Leca, J. M. Kanellopoulos & L. Boumsell* 109

Induction of Concanavalin A Dose-dependent T-Cell Growth Factor Production by Insertion of T-Cell Membrane Components into the AKR Thymic Lymphoma BW 5147. *C. Lindquist, I. M. Shapiro & H. Wigzell* 119

Studies on the Mechanism of Binding and Uptake of Immune Complexes by Various Cell Types of Rat Liver in Vivo. *S. M. van der Laan-Klamer, G. Harms, J. E. Atmosoerodjo, D. K. F. Meijer, M. J. Hardonk & P. J. Hoedemaeker* 127

Chicken T-Cell Growth Factor: Use in the Generation of a Long-Term Cultured T-Cell Line and Biochemical Characterization. *O. Vainio, M. J. H. Ratcliffe & T. Leanderson* 135

Volume 23, No. 2, February 1986

Separation of Human B Lymphocytes on *Helix pomatia* A Haemagglutinin into Two Major Fractions Differing in Responsiveness to T-dependent Mitogen (Pokeweed Mitogen) or Antigen (Tetanus Toxoid). *E.-S. Robertsson, U. Hellström, B. Axelsson & P. Perlmann* 143

Fibronectin Binding to C1q Associated with Antigen–Antibody Complexes in EDTA-treated Plasma. *J. Sorvillo, I. Gigli & E. Pearlstein* 153

Dialysable Leukocyte Extracts (Transfer Factor) Augment Nonspecifically Keyhole Limpet Haemocyanin and Horseshoe Crab Haemocyanin Skin Reactivity in Unimmunized Human Recipients. *R. G. I. Ashorn, A. A. Vandenbark, K. M. Acott & K. J. E. Krohn* 161

Dissection of the Human Antigammaglobulin Idiotope System with Monoclonal Antibodies. *D. N. Posnett, R. Wisniewolski, B. Pernis & H. G. Kunkel* 169

Lymphokine Production in Tγ Lymphoproliferative Disorders. *A. Rambaldi, V. Rossi, P. Allavena, M. Introna, S. Landolfo, R. Bassan & A. Mantovani* 183

Quantitation of Blood Lymphocytes Secreting Antibodies to Pneumococcal Polysaccharides after in Vivo Antigenic Stimulation. *C. Heilmann & F. K. Pedersen* 189

Production of Interferon-β by Murine T-Cell Lines Induced by 10-Carboxymethyl-9-Acridanone. *E. Storch, H. Kirchner, G. Brehm, K. Hüller & F. Marcucci* 195

Host-Reactive Cytotoxic T Lymphocyte Precursors on Long-lived Fully Allogeneic Mouse Bone Marrow Chimeras. *K. Heeg, J. Reimann, H. Heit, W. Heit & H. Wagner* 201

Suppression by Alpha-Fetoprotein of Murine Natural Killer Cell Activity Stimulated in Vitro and in Vivo by Interferon and Interleukin 2. *B. L. Cohen, A. Orn, K.-O. Gronvik, M. Gidlund, H. Wigzell & R. A. Murgita* 211

Characterization of Two Morphologically Distinct Leu-7$^+$ Cell Subsets with Respect to Leu-15 Antigen. Evaluation of Leu-15 Determinant Distribution on Both E Rosetting and Non-Adherent Non-E Rosetting Cell Populations. *G. C. Manara, C. Ferrari, R. Scandroglio, G. Rocchi, L. Pagani & G. De Panfilis* 225

Rheumatoid Synovial Dendritic Cells as Stimulators in Allogeneic and Autologous Mixed Leukocyte Reactions—Comparison with Autologous Monocytes as Stimulator Cells. *K. Waalen, J. Thoen, Ø. Førre, T. Hovig, J. Teigland & J. B. Natvig* 233

Proliferative Kinetics, Phenotype and Cytotoxic Function of Thymic and Peripheral T-Cell Colonies. *C. Röpke & M. H. Claësson* 243

Announcements 251

Volume 23, No. 3, March 1986

EDITORIAL REVIEW. Chemical and Clinical Classification of Amyloidosis 1985. *G. Husby & K. Sletten* 253

Suppressor Factors Generated from Human Mononuclear Cells by Means of Purified Myeloma Proteins. *A. G. Wangel, S. Kontiainen, H. Arvilommi, M. Nuutinen & J. Koistinen* 267

Origin and Kinetics of IgA, IgG and IgM Milk Antibodies in Primary and Secondary Responses of Rats. *U. I. H. Dahlgren, S. Ahlstedt & L. A. Hanson* 273

Characterization of Monoclonal Antihuman-B-Cell Antibody BL13 as an Anti-C3d-Receptor (CR2) Antibody. *J. H. M. Cohen, E. Fischer, M. D. Kazatchkine, J. Brochier & J. P. J. Revillard* 279

The Adjuvant Activity of Nonionic Block Polymer Surfactants. III. Characterization of Selected Biologically Active Surfaces. *R. L. Hunter & B. Bennett* 287

Formation of the Functional Alternative Pathway of Complement by Human Monocytes in Vitro as Demonstrated by Phagocytosis of Agarose Beads. *G. Hetland & T. Eskeland* 301

The Immune Response to Pneumococcal Polysaccharide Type III is Followed by Increased Production of an Antibody Antifactor. *V. J. Pasanen* 309

Human Schistosomiasis: Deficiency of Large Granular Lymphocytes and Indomethacin-Sensitive Suppression of Natural Killing. *G. A. Gastl, H. Feldmeier, C. Kortmann, A. A. Daffalla & H. H. Peter* 319

Studies of Monoclonal Antibodies Specific for Major Histocompatibility Complex Products of the Rat. IV. Production and Characterization of Polyclonal and Monoclonal Anti-Anti-Idiotypic Antibodies. *S. Hemmi, M. Fenner, E. Gall, H. Binz & H. Wigzell* 327

Bone Marrow Transplantation in the Rat. II. Quantitation of Cellular Infiltrates in Parenchymal Target Organs in Acute Graft-versus-Host Disease. *R. Renkonen & P. Häyry* 351

Antigens of Complement Factor C3 Involved in the Interactions with Factors I and H. *B. Nilsson & U. R. Nilsson* 357

Interleukin 1 Activity Produced by Human Rheumatoid and Normal Dendritic Cells. *K. Waalen, G. W. Duff, Ø. Førre, E. Dickens, L. Kvarnes & G. Nuki* 365

Dendritic Cells from Human Rheumatoid Synovial Inflammatory Tissue and Peripheral Blood as Accessory Cells in Mitogen Stimulation of T Lymphocytes. *K. Waalen, Ø. Førre, J. Pahle & J. B. Natvig* 373

SHORT PAPER. Expression of HLA-DQ Antigens on Keratinocytes in *Borrelia* Spirochete-Induced Skin Lesions. *U. Tjernlund, A. Scheynius, E. Åsbrink & A. Hovmark* 383

SHORT PAPER. Genetic Variation in the in Vitro Veto Activity of Bone-Marrow Cells. *M. Hurme* 389

Announcement 393

Erratum 395

Volume 23, No. 4, April 1986

The Attachment of Serum- and Plasma-Derived C3 to Solid-Phase Immune Aggregates and Its Relation to Complement-Mediated Solubilization of Immune Complexes. *G. Baatrup, S.-E. Svehag & J. C. Jensenius* 397

The Mature, Mitogen-Responsive, Human Thymocyte Population Comprises Two Functionally Distinct T-Cell Subsets Differing in Exogenous Interleukin Requirements for Mitogenesis and in Sensitivity to Glucocorticoids. *F. O. Ranelletti, M. Piantelli, A. Carbone, N. Maggiano, L. M. Larocca, F. B. Aiello & P. Musiani* 407

Altered Natural Killer and Natural Cytotoxic Cellular Activities in *lpr* Mice. *L.-Z. Pan, M. J. Dauphinée, S. A. Ahmed & N. Talal* 415

Monoclonal Antibodies against Pancreatic Islet–Cell-Surface Antigens Selected by Flow Cytofluorometry. *H. Vissing, G. Papadopoulos & Å. Lernmark* 425

Inhibition of in Vitro Alloreactivity by Cyclosporin A: Evidence for an Inter-Individual Variation in Sensitivity *S. Sander, C. Brigati & E. Möller* 435

Hepatic Uptake of Autologous Immune Complexes in the Rat *S. M. van der Laan-Klamer, G. Harms, J. Atmosoerodjo-Briggs, Ph. J. Hoedemaeker & M. J. Hardonk* 441

Direct Demonstration of Immunoregulatory T-Cell Defects in Patients with Systemic Lupus Erythematosus. *J. Koide, M. Takano, T. Takeuchi, O. Hosono, K. Amano, M. Homma & T. Abe* 449

The Role of the CD8-Positive Subset of T Cells in Proliferative Responses to Soluble Antigens. I. Studies of Healthy Subjects, Type 1 Diabetics, and Coeliac Disease Patients. *L. Sollid, Ø. Bruserud, G. Gaudernack & E. Thorsby* 461

The Role of the CD8-Positive Subset of T Cells in Proliferative Responses to Soluble Antigens. II. CD8-Positive Cells Are Not Responsible for DR-Associated Differences in Responsiveness to Mumps and Coxsackie B4. *Ø Bruserud, L. Sollid, G. Gaudernack & E. Thorsby* 469

Quantitative Evidence Against Inactivation of Self-Reactive B-Cell Clones. *S. Karray, P. Lymberi, S. Avrameas & A. Coutinho* 475

Further Characterization of Internal Image-Bearing Anti-Idiotypic Antibodies: Specific Binding to Immunoglobulin Receptors on Murine Hybridoma Cells Secreting Antibodies to Hepatitis B Surface Antigen. *R. C. Kennedy, R. D. Henkel & G. R. Dreesman* 481

Interleukin 1 Activity in the Acquired Immunodeficiency Syndrome. *C. Enk, J. Gerstoft, S. Møller & L. Remvig* 491

Human Anti-F(ab')$_2$ Antibodies and Pepsin Agglutinators React with Fv Determinants. *F. Silvestris, R. C. Williams, Jr & R. P. Searles* 499

Characterization of Human Mononuclear Cells after Positive Selection with Immunomagnetic Particles. *T. Lea, E. Smeland, S. Funderud, F. Vartdal, C. Davies, K. Beiske & J. Ugelstad* 509

Erratum 521

Volume 23, No. 5, May 1986

EDITORIAL REVIEW. Human Serum Albumin and the Enigma of Chronic Hepatitis Type B. *U. Hellström & S. Sylvan* 523

SHORT REVIEW. Well-Defined Cell-Surface Receptors May Be Entry Points for Infectious Agents. *R. C. Williams, Jr., G. Husby & F. T. Koster* 529

The Sheep Erythrocyte Receptor and Both α and β Chains of the Human T-Lymphocyte Antigen Receptor Bind the Mitogenic Lectin (Phytohaemagglutinin) from *Phaseolus vulgaris*. *G. Leca, L. Boumsell, M. Fabbi, E. L. Reinherz & J. M. Kanellopoulos* 535

Regulation of the Immune Response to Hepatitis B Virus and Human Serum Albumin. I. Hepatitis B Surface Antigen-Induced Secretion of Antibodies with Specificity for Human Serum Albumin in Hepatitis B-Immune Donors in Vitro. *U. Hellström & S. Sylvan* 545

Preferential Induction of Antigen-Specific Contrasuppressor T Lymphocytes by Trinitrophenyl (TNP)-Substituted Langerhans Cells. *W. Ptak, M. Ptak & A. Gryglewski* 555

Immunocytochemical Localization of a Medullary Thymic Epithelial Glycoprotein. *M. G. Zelechowska, J. Lecomte & E. F. Potworowski* 561

Dependency of B Cells on the Presence of Adherent Cells, or Factors Derived from Them, for the Production of Autoantibodies in Vitro in the Absence of Cell Division. *S. Daenke & K. O. Cox* 567

Enhancement of Immunoglobulin Secretion by the Lymphokine-Like Activity of a *Mycoplasma arginini* Strain. *E. Ruuth & E. Lundgren* 575

Enhanced Binding and Degradation of the C1q Subcomponent of Complement by Thioglycollate-Stimulated Guinea Pig Peritoneal Macrophages. *R. Veerhuis, N. Klar-Mohamad, L. A. van Es & M. R. Daha* 581

The Host Component of the Popliteal Lymph Node Graft-versus-Host Reaction. Selective Representation of Lymphocyte Subsets and the Requirement for Alloantigenic Incompatibility between Donor Cells and Activated Host B Cells. *B. Rolstad, S. Fossum, S. V. Hunt & W. L. Ford* 589

Human Peritoneal Eosinophils and Formation of Arachidonate Cyclooxygenase Products. *M. L. Foegh, Y. T. Maddox & P. W. Ramwell* 599

SHORT PAPER. Local Administration of Various Cytostatic Drugs after Subcutaneous Immunization Enhances Delayed-Type Hypersensitivity Reaction to Sheep Red Blood Cells in Mice. *B. T. G. Tan, J. Limpens, M. Koken, H. Valster & R. J. Scheper* 605

SHORT PAPER. Intestinal Mucosal Memory and Presence of Memory Cells in Lamina Propria and Peyer's Patches in Mice 2 Years after Oral Immunization with Cholera Toxin. *N. Lycke. & J. Holmgren* 611

SHORT PAPER. Human T-Cell Hybrids Secreting Lymphokines: Effect of Different Parent Cell Clones of the Human T-Cell Acute Lymphoblastoid Leukaemia Line CCRF–CEM. *G. Gallagher & W. H. Stimson* 617

Volume 23, No. 6, June 1986

Screening Monoclonal Antibodies against Cell-Surface Antigens. High Frequency of Natural Antibodies *J.-Y. Perrot, P. Krief, C. Julien, P. Benoit, M. Mirshahi, M. Billard, C. Rosenfeld & C. Boucheix* 623

Features of Haemocyanin-Induced Suppression in Vivo. Study of the Fractionation of T Lymphocytes Involved in Suppression over Unsolubilized Conjugated Histamine Columns. *R. Huchet* 631

Natural Killer and T-Cell Potentiation by Monoclonal IgG against Natural Killer Cell FcR(IgG) or the T3 Complex. *M. Jondal, C. Kullman, M.-B. Alter & K. Ljunggren* 639

Compartment Dependence of T-Lymphocyte Motility. *K.-G. Sundqvist, P. Otteskog & H. Mellstedt* 647

Acetylcholine Receptor Antibodies and Anti-Idiotypic Antibodies Produced in Blood Lymphocyte Cultures from Patients with Myasthenia Gravis. *A. K. Lefvert, H. Sundén & G. Holm* 655

Effects of Calmodulin Antagonists $Cd2^+$ and Trifluoperazine on Mixed Lymphocyte Culture Cell-Mediated Lysis and Antibody-Dependent Cell Cytolysis. *C. H. J. Wolff* 663

Immunological Studies in the Acquired Immunodeficiency Syndrome. II. Active Suppression or Intrinsic Defect—Investigated by Mixing AIDS Cells with HLA-DR Identical Normal Cells. *B. Hofmann, N. Ødum, B. K. Jakobsen, P. Platz, L. P. Ryder, J. O. Nielsen, J. Gerstoft & A. Svejgaard* 669

Differentiation by Interleukin 2 of a Subpopulation of Human B Cells. *C. Grillot-Courvalin, S. Labaume & J.-C. Brouet* 679

Cell-Mediated Immune Response in the Diseased Joints in Patients with Reactive Arthritis. *Y. T. Konttinen, D. Nordström, V. Bergroth, M. Leirisalo-Repo & B. Skrifvars* 685

Regulation of Interleukin 2 Receptor Expression by Interleukin 2. *A. B. Reske-Kunz, D. von Steldern, E. Rüde & T. Diamantstein* 693

Characterization of Amyloid Protein AA and Its Serum Precursor SAA in the Horse. *A. Husebekk, G. Husby, K. Sletten, G. Marhaug & K. Nordstoga* 703

SHORT PAPER. A Family with Complement Factor I Deficiency. *J. M. Rasmussen, B. Teisner, I. Brandslund & S.-E. Svehag* 711